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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-38** **Date: 08/07/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Aswathkatte near Mutturaya Swamy Temple in Mallasandra Ward No.13, Shettyhalli Sub Division.

Agency : Sri.Puttaraju.A, No.B48/5, Pipeline B Cross, Bahubalinagar, Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/PD/WO/00008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	01/07/2019	08/07/2019	151.60 X 151.90 X 151.70	23027	**8.713**	436.3	18.9	18.6
2	RCC	M20	01/07/2019	08/07/2019	149.36 X 151.52 X 149.36	22630	**8.350**	423.4	18.7	
3	RCC	M20	01/07/2019	08/07/2019	149.86 X 151.28 X 149.79	22671	**8.789**	412.4	18.2	

Note:
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All information furnished by Customer/Representative
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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

CIVIL Pro BANGALORE 310 Date

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-08-38** **Date: 29/07/2019**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Aswathkatte near Mutturaya Swamy Temple in Mallasandra Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Puttaraju.A, No.B48/5, Pipeline B Cross, Bahubalinagar, Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/PD/WO/00008/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-19
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	01/07/2019	29/07/2019	149.95 X 150.32 X 151.34	22541	8.642	533.6	23.7	23.5
2	RCC	M20	01/07/2019	29/07/2019	150.61 X 150.72 X 150.71	22699	8.492	519.3	22.9	
3	RCC	M20	01/07/2019	29/07/2019	149.88 X 149.39 X 150.25	22391	8.553	535.7	23.9	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-08-38 **Date: 04/07/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Aswathkatte near Mutturaya Swamy Temple in Mallasandra Ward No.13, Shettyhalli Sub Division.

Agency : Sri.Puttaraju.A, No.B48/5, Pipeline B Cross, Bahubalinagar, Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/PD/WO/00008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-19

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	27/06/2019	04/07/2019	150.59 X 150.45 X 149.49	22657	**8.231**	540.1	23.8	23.0
2	Footing Concrete	M25	27/06/2019	04/07/2019	150.57 X 150.72 X 151.61	22694	**8.218**	510.8	22.5	
3	Footing Concrete	M25	27/06/2019	04/07/2019	149.35 X 151.47 X 149.22	22622	**8.421**	512.4	22.6	

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-08-08-38

Date: 20-07-2019

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Aswathkatte near Mutturaya Swamy Temple in Mallasandra Ward No.13, Shettyhalli Sub Division.

Agency : Sri.Puttaraju.A, No.B48/5, Pipeline B Cross, Bahubalinagar, Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/PD/WO/00008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-06-2019

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 22-06-2019

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-08-38** **Date: 24-06-2019**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Aswathkatte near Mutturaya Swamy Temple in Mallasandra Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Puttaraju.A, No.B48/5, Pipeline B Cross, Bahubalinagar, Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/PD/WO/00008/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-06-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-08-38** **Date: 24-06-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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